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AUTHOR: Baskov, V. S.; Berger, S. I.; Mal'tsev, M. G.; Palladin, M. N.; Taganov, K. I.;

TITLE: New data on spectroanalysis with preliminary contact-spark transport of the sample material. Paper presented at the Fourteenth Conference on Spectroscopy held in Gor'kiy 5 to 12 July 1961.

PERIODICAL: AN SSSR. Izv. Ser. fizicheskaya, v. 27, no. 1, 1963, 2-3

TOPIC TAGS: spectroanalysis, preliminary contact-spark transport, cast iron, Al-Cu-A- alloy sample

ABSTRACT: The potentialities of the contact-spark sampling technique in spectroscopic analysis of metals and alloys were evaluated. Contact-spark transport of cast iron and Al-Cu-A- alloy samples onto copper counterelectrodes enhances the sensitivity of analysis. Another method of increasing sensitivity consists in precoating the sample with a catalyst; this is effective where preliminary deposition of Cd on titanium alloys is concerned. Analysis is usually effected without presparking of the transferred sample. Further improvement of the spark sampling procedure consists in the use of single pulse discharges. The diagram of a spark sampling circuit is shown. There are 3 diagrams.

Card 1/2

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